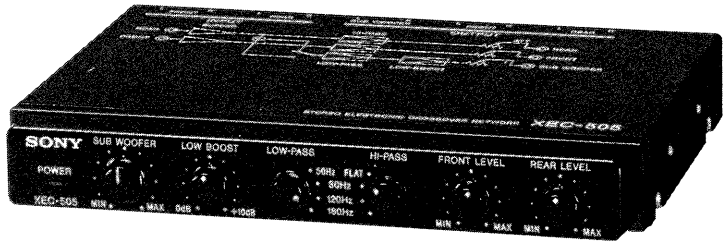
XEC-505

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



SPECIFICATIONS

Crossover frequency
HI-PASS (for FRONT and REAR outputs): FLAT, 80, 120, 180 Hz
LOW-PASS (for SUB WOOFER outputs): 50, 80, 120, 180 Hz
Gain 0 dB
+6 dB (Subwoofer)
Harmonic distortion
less than 0.005%
Signal-to-noise ratio
more than 105 dB
Frequency response
5 Hz to 100 kHz ($^{+0}_{-3}$ dB)
Crossover slope -12 dB/oct
-18 dB/oct (Subwoofer)
Bass boost 0 to +10 dB (40 Hz)

General

Inputs Remote control input
Power input
Line input (phono jack 4)
Outputs Line outputs (phono jack 6)
Power requirements
12 V DC car battery (negative ground)
Current drain 220 mA
Input remote current
4 mA
Mounting dimensions
Approx. 178 x 25 x 110 mm (w/h/d)
Mass Approx. 0.6 kg
Supplied accessories
Mounting hardware (1 set)
Power connecting leads (1 set)

Design and specifications are subject to change without notice.

ELECTRONIC CROSSOVER NETWORK

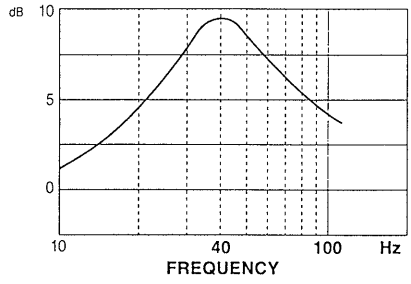
SONY®

Features

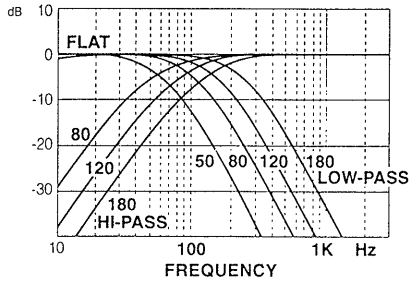
- Linear phase filters* (Bessel function type) realize natural and equal sound levels in and around the passband frequency.
- The sound balance of the front and rear speakers can be adjusted without affecting the subwoofer sound.
- 40 Hz low boost control allows dynamic bass reproduction.

* Linear phase filters (Bessel function type)
Most of the channel dividers currently available employ flat response filters (Butterworth type). The group delay characteristic of this type of filters is much worse than that of the linear phase filters, and this causes transient distortion in the audio signals at each filter's crossover frequency. To reduce that distortion and to obtain hi-fi sound, linear phase filters (Bessel function type) are used for the XEC-505.

Low Boost Response Curve
Courbe de réponse d'accentuation des basses



Crossover Point Response Curve
Courbe de réponse du seuil de coupure



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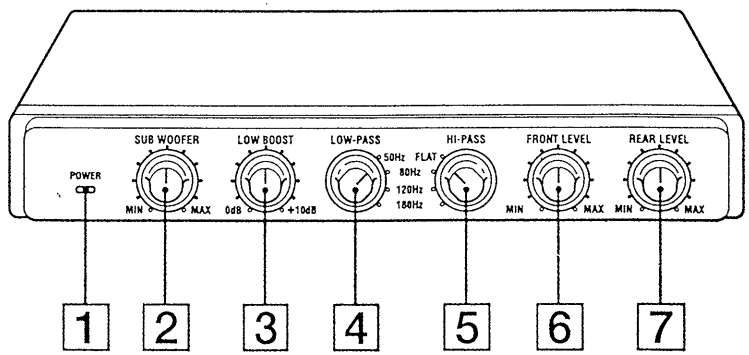
Location and Function of Controls

Front panel



1 **POWER indicator**

2 **SUB WOOFER output level control**
Turn to adjust the output level of the SUB WOOFER OUTPUT.

3 **LOW BOOST level control**
Turn to boost the frequencies around 40 Hz at the maximum of 10 dB.

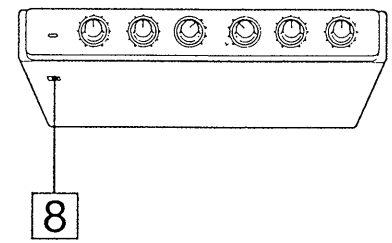
4 **LOW-PASS (low-band crossover point) selector**
Turn to set the crossover frequency above which it will be cut off.

5 **HI-PASS (high-band crossover point) selector**
Turn to set the crossover frequency below which it will be cut off.

6 **FRONT LEVEL control**
Turn to adjust the output level of the FRONT OUTPUT.

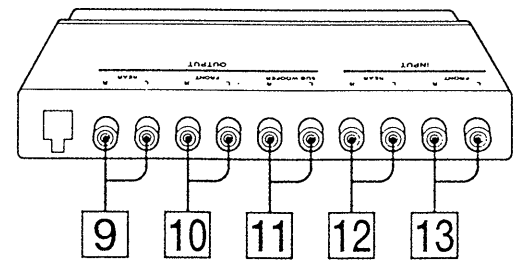
7 **REAR LEVEL control**
Turn to adjust the output level of the REAR OUTPUT.

Bottom



8 **SUB WOOFER F&R/ F (front and rear / front) selector**
Use this to select the output from the SUB WOOFER OUTPUT. Set it to the F&R position to obtain the summation of signals from the FRONT INPUT and REAR INPUT, or set it to the F position to obtain only signals from the FRONT INPUT.

Rear



9 **REAR (R/L) OUTPUT jacks**
10 **FRONT (R/L) OUTPUT jacks**
11 **SUB WOOFER (R/L) OUTPUT jacks**
12 **REAR (R/L) INPUT jacks**
13 **FRONT (R/L) INPUT jacks**

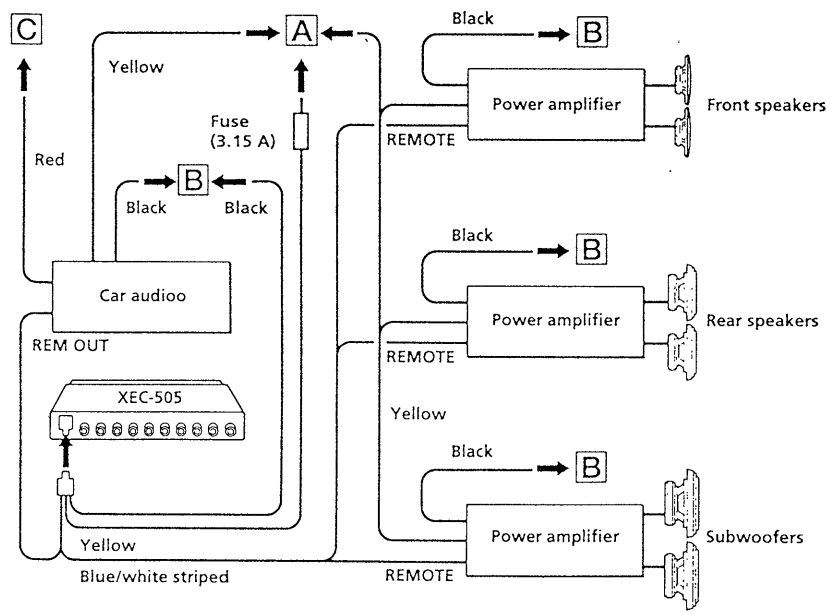
Caution

- This unit is designed for negative ground 12 volt DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the yellow power input lead only after all other leads are connected. And be sure to connect it to the positive 12 volt power terminal.
- Run all ground wires to a common ground point.

Note on amplifier and program source connection

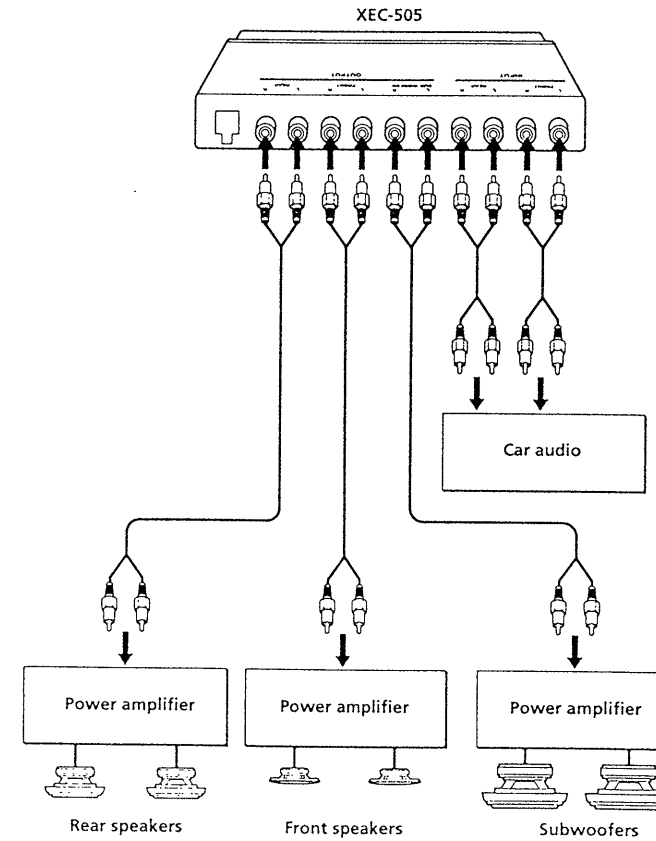
The red jacks of the unit are for right-channel connection and the white jacks for the left-channel.

Power Connection Example



A To the ⊕ (positive) terminal of the car battery
B To a metal part of the car
C To the ⊕ (positive) terminal which is energized when the ignition key is turned in the accessory position

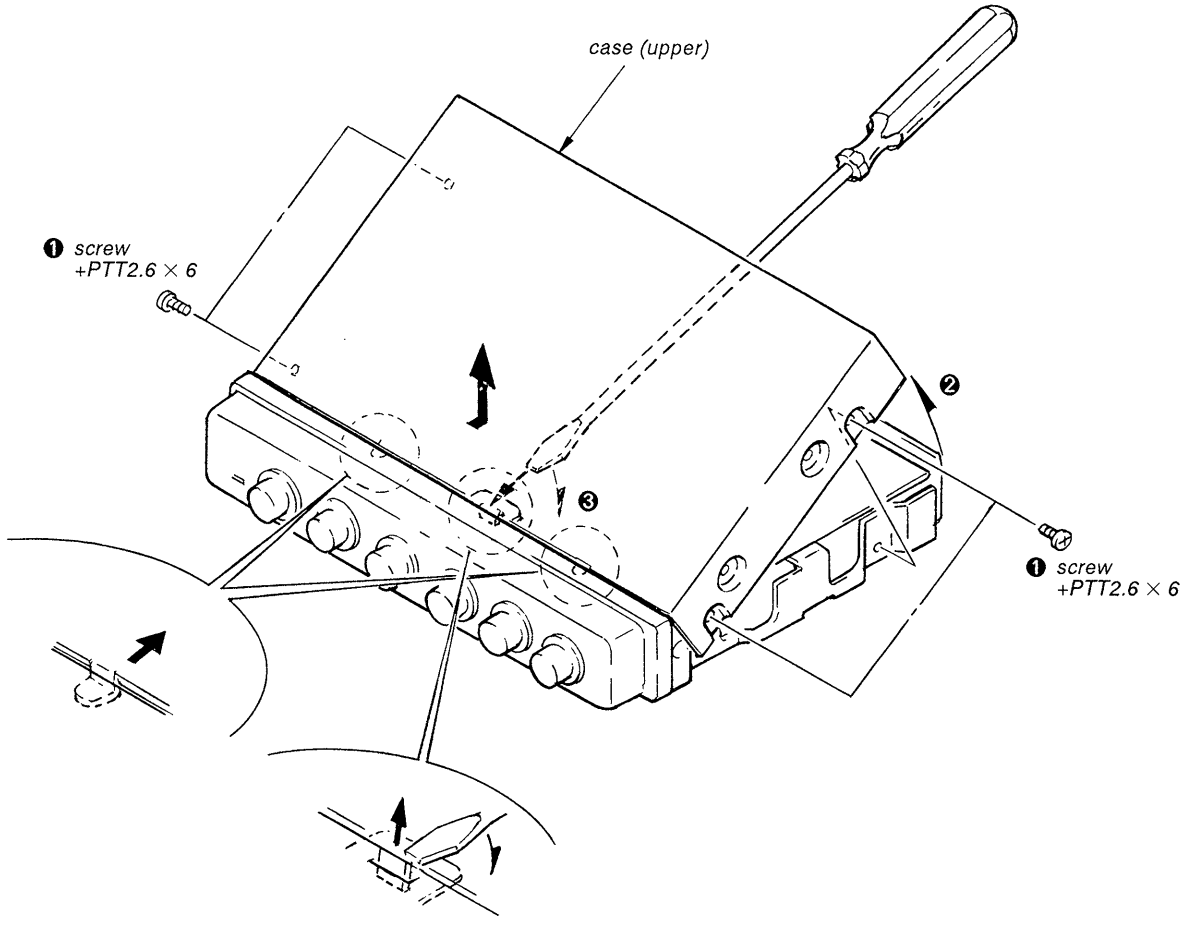
Signal Connections Example



SECTION 2
DISASSEMBLY

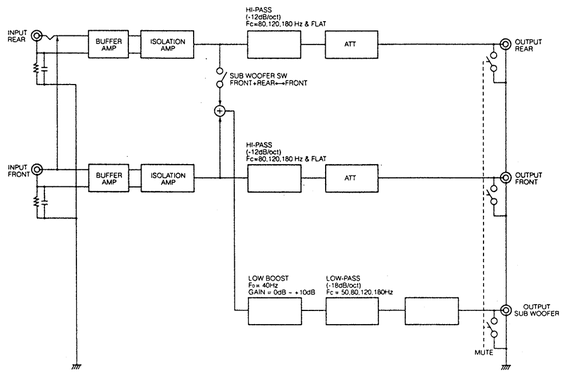
Note: Follow the disassembly procedure in the numerical order given.

CASE (UPPER)



SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM



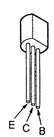
• Semiconductor Location

Ref. No.	Location
D901	H-4
D902	F-4
D907	F-5
D908	G-6
D909	F-5
D910	F-5
D911	G-6
D912	G-7
D913	G-6
D914	G-9
D915	G-9
D916	G-9
D917	G-9
D918	H-9
D919	G-9
D921	A-13
IC110	G-11
IC130	D-4
IC210	F-11
IC310	G-14
IC330	D-4
IC410	E-13
IC540	C-11
IC560	F-9
IC561	B-13
IC901	F-6
Q130	G-9
Q230	G-9
Q330	G-9
Q430	G-9
Q540	C-10
Q561	H-9
Q640	C-10
Q661	H-8
Q901	F-3
Q902	F-4
Q903	F-4
Q906	E-5
Q907	G-5
Q908	G-5
Q909	H-6
Q910	G-7

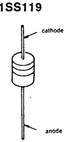
• Semiconductor Lead Layouts

M5218AL
M5223

2SA1175-FEK

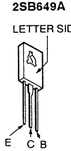


RD3.9ES-B2
RD10ES-B2
RD16ES-B3
1SS119



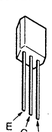
NJM4580L

2SB649A

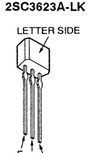


U05G

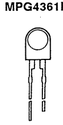
DTA114ES
DTC323TS
2SC2785-FEK



2SC3623A-LK



MPG4361F



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- B+ : B + Line.
- ▭ : panel designation.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and REM terminals.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : LINE IN

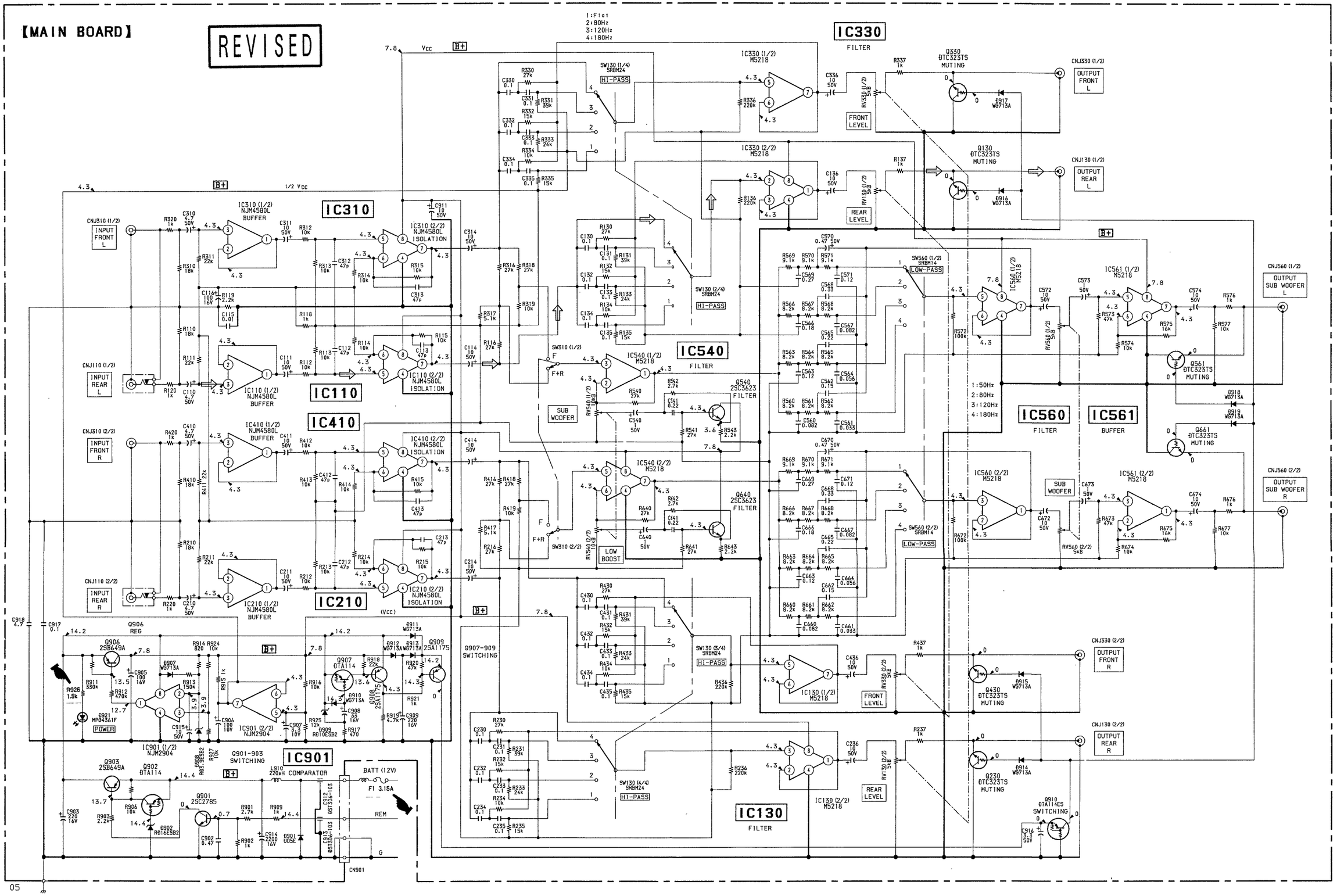
Note on Printed Wiring Board:

- ○—— : parts extracted from the component side.

3-2. PRINTED WIRING BOARD

【MAIN BOARD】

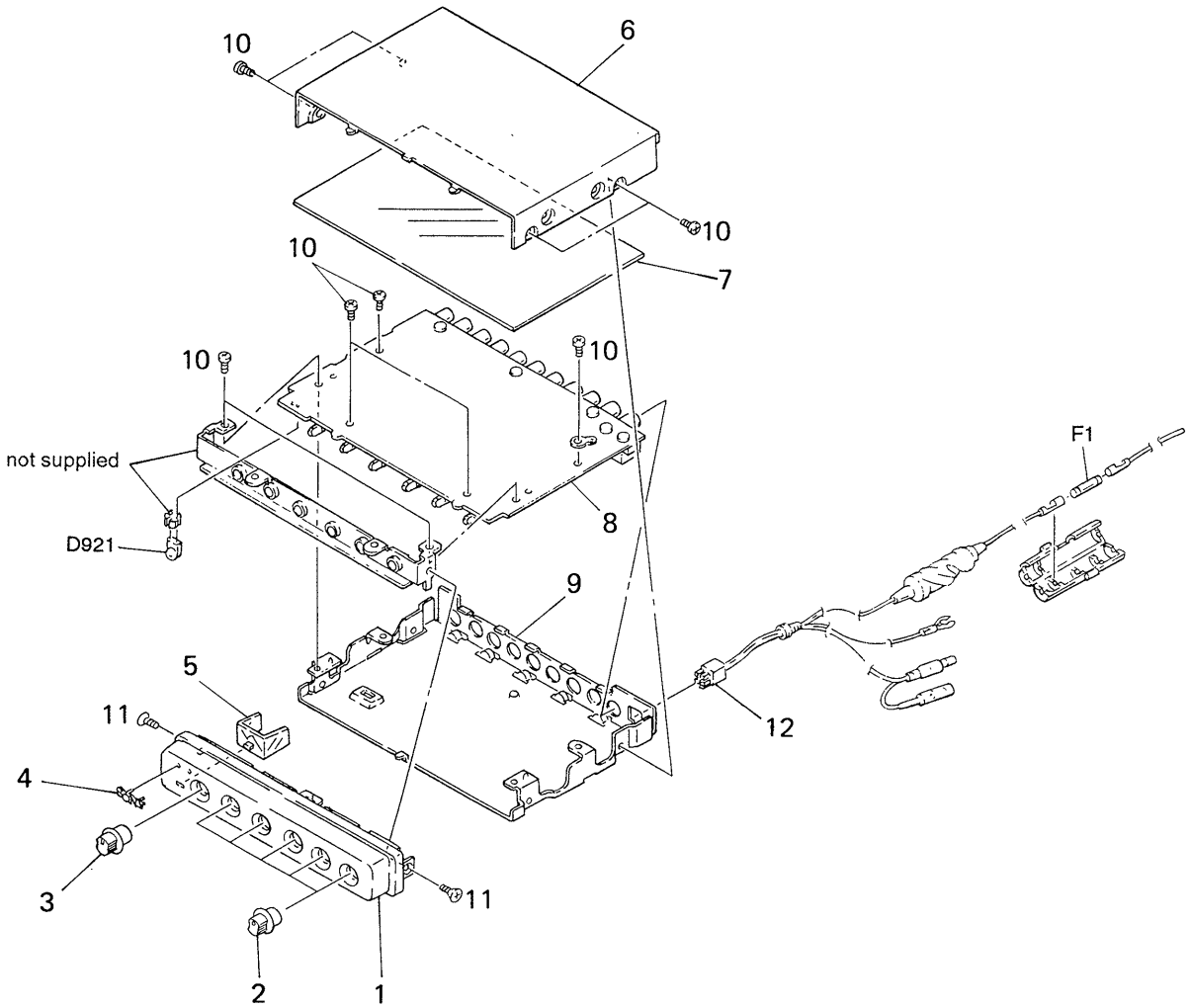
REVISED



SECTION 4
EXPLODED VIEW

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.



Ref. No.	Part No.	Description	Remark
1	3-912-570-01	PANEL, FRONT	
2	3-912-573-01	KNOB	
3	3-912-569-01	KNOB (SUB WOOFER)	
4	3-904-194-01	EMBLEM (NO. 2.5), SONY	
* 5	3-912-574-01	PLATE, LIGHT GUIDE	
* 6	3-912-571-01	CASE (UPPER)	
* 7	3-912-575-01	SHEET, INSULATING	
* 8	A-3298-062-A	MAIN BOARD, COMPLETE	
* 9	3-912-572-01	CASE (LOWER)	
10	7-621-770-67	SCREW +PTT 2.6X6 (S)	
11	7-685-233-19	SCREW +KTP 2.6X6 TYPE2NON-SLIT	
12	1-696-710-11	CORD (WITH CONNECTOR)	
D921	8-719-970-76	DIODE MPG4361F (POWER)	
F1	1-532-419-11	FUSE 3.15A 125V	

MAIN

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA . . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. . uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3298-062-A	MAIN BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +P 3X8 TYPE2 NON-SLIT			
	7-621-770-67	SCREW +PTT 2.6X6 (S)			
		< CAPACITOR >			
C110	1-124-927-11	ELECT	4.7uF	20%	100V
C111	1-124-907-11	ELECT	10uF	20%	50V
C112	1-101-880-00	CERAMIC	47PF	5%	50V
C113	1-101-880-00	CERAMIC	47PF	5%	50V
C114	1-124-907-11	ELECT	10uF	20%	50V
C115	1-136-165-00	FILM	0.1uF	5%	50V
C116	1-126-101-11	ELECT	100uF	20%	16V
C130	1-136-165-00	FILM	0.1uF	5%	50V
C131	1-136-165-00	FILM	0.1uF	5%	50V
C132	1-136-165-00	FILM	0.1uF	5%	50V
C133	1-136-165-00	FILM	0.1uF	5%	50V
C134	1-136-165-00	FILM	0.1uF	5%	50V
C135	1-136-165-00	FILM	0.1uF	5%	50V
C136	1-124-907-11	ELECT	10uF	20%	50V
C210	1-124-927-11	ELECT	4.7uF	20%	100V
C211	1-124-907-11	ELECT	10uF	20%	50V
C212	1-101-880-00	CERAMIC	47PF	5%	50V
C213	1-101-880-00	CERAMIC	47PF	5%	50V
C214	1-124-907-11	ELECT	10uF	20%	50V
C230	1-136-165-00	FILM	0.1uF	5%	50V
C231	1-136-165-00	FILM	0.1uF	5%	50V
C232	1-136-165-00	FILM	0.1uF	5%	50V
C233	1-136-165-00	FILM	0.1uF	5%	50V
C234	1-136-165-00	FILM	0.1uF	5%	50V
C235	1-136-165-00	FILM	0.1uF	5%	50V
C236	1-124-907-11	ELECT	10uF	20%	50V
C310	1-124-927-11	ELECT	4.7uF	20%	100V
C311	1-124-907-11	ELECT	10uF	20%	50V
C312	1-101-880-00	CERAMIC	47PF	5%	50V
C313	1-101-880-00	CERAMIC	47PF	5%	50V
C314	1-124-907-11	ELECT	10uF	20%	50V
C330	1-136-165-00	FILM	0.1uF	5%	50V
C331	1-136-165-00	FILM	0.1uF	5%	50V
C332	1-136-165-00	FILM	0.1uF	5%	50V
C333	1-136-165-00	FILM	0.1uF	5%	50V
C334	1-136-165-00	FILM	0.1uF	5%	50V
C335	1-136-165-00	FILM	0.1uF	5%	50V
C336	1-124-907-11	ELECT	10uF	20%	50V
C410	1-124-927-11	ELECT	4.7uF	20%	100V
C411	1-124-907-11	ELECT	10uF	20%	50V
C412	1-101-880-00	CERAMIC	47PF	5%	50V
C413	1-101-880-00	CERAMIC	47PF	5%	50V
C414	1-124-907-11	ELECT	10uF	20%	50V
C430	1-136-165-00	FILM	0.1uF	5%	50V
C431	1-136-165-00	FILM	0.1uF	5%	50V
C432	1-136-165-00	FILM	0.1uF	5%	50V
C433	1-136-165-00	FILM	0.1uF	5%	50V
C434	1-136-165-00	FILM	0.1uF	5%	50V
C435	1-136-165-00	FILM	0.1uF	5%	50V
C436	1-124-907-11	ELECT	10uF	20%	50V
C540	1-124-903-11	ELECT	1uF	20%	50V
C541	1-136-169-00	FILM	0.22uF	5%	50V
C560	1-136-164-00	FILM	0.082uF	5%	50V
C561	1-136-159-00	FILM	0.033uF	5%	50V
C562	1-136-167-00	FILM	0.15uF	5%	50V
C563	1-136-166-00	FILM	0.12uF	5%	50V
C564	1-136-162-00	FILM	0.056uF	5%	50V
C565	1-136-169-00	FILM	0.22uF	5%	50V
C566	1-136-168-00	FILM	0.18uF	5%	50V
C567	1-136-164-00	FILM	0.082uF	5%	50V
C568	1-136-171-00	FILM	0.33uF	5%	50V
C569	1-136-170-00	FILM	0.27uF	5%	50V
C570	1-124-902-00	ELECT	0.47uF	20%	50V
C571	1-136-166-00	FILM	0.12uF	5%	50V
C572	1-124-907-11	ELECT	10uF	20%	50V
C573	1-124-903-11	ELECT	1uF	20%	50V
C574	1-124-907-11	ELECT	10uF	20%	50V
C640	1-124-903-11	ELECT	1uF	20%	50V
C641	1-136-169-00	FILM	0.22uF	5%	50V
C660	1-136-164-00	FILM	0.082uF	5%	50V
C661	1-136-159-00	FILM	0.033uF	5%	50V
C662	1-136-167-00	FILM	0.15uF	5%	50V

Ref.No.	Part No.	Description			Remark
C663	1-136-166-00	FILM	0.12uF	5%	50V
C664	1-136-162-00	FILM	0.056uF	5%	50V
C665	1-136-169-00	FILM	0.22uF	5%	50V
C666	1-136-168-00	FILM	0.18uF	5%	50V
C667	1-136-164-00	FILM	0.082uF	5%	50V
C668	1-136-171-00	FILM	0.33uF	5%	50V
C669	1-136-170-00	FILM	0.27uF	5%	50V
C670	1-124-902-00	ELECT	0.47uF	20%	50V
C671	1-136-166-00	FILM	0.12uF	5%	50V
C672	1-124-907-11	ELECT	10uF	20%	50V
C673	1-124-903-11	ELECT	1uF	20%	50V
C674	1-124-907-11	ELECT	10uF	20%	50V
C902	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C903	1-124-120-11	ELECT	220uF	20%	25V
C905	1-126-101-11	ELECT	100uF	20%	16V
C906	1-124-443-00	ELECT	100uF	20%	10V
C907	1-126-962-11	ELECT	3.3uF	20%	50V
C908	1-124-034-51	ELECT	33uF	20%	16V
C909	1-124-120-11	ELECT	220uF	20%	25V
C911	1-124-907-11	ELECT	10uF	20%	50V
C912	1-424-228-11	FILTER, NOISE			
C913	1-424-228-11	FILTER, NOISE			
C914	1-126-768-11	ELECT	2200uF	20%	16V
C915	1-124-907-11	ELECT	10uF	20%	50V
C916	1-126-962-11	ELECT	3.3uF	20%	50V
C917	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C918	1-164-506-11	CERAMIC CHIP	4.7uF		16V
		< CONNECTOR >			
* CN901	1-691-785-11	PIN, CONNECTOR (PC BOARD) 4P			
CNJ110	1-580-179-21	JACK, PIN 2P (INPUT REAR L/R)			
CNJ130	1-565-412-21	JACK, PIN 2P (OUTPUT REAR L/R)			
CNJ310	1-565-412-21	JACK, PIN 2P (INPUT FRONT L/R)			
CNJ330	1-565-412-21	JACK, PIN 2P (OUTPUT FRONT L/R)			
CNJ560	1-565-412-21	JACK, PIN 2P (OUTPUT BUS WOOFER L/R)			
		< DIODE >			
D901	8-719-911-55	DIODE	U05G		
D902	8-719-110-46	DIODE	RD16ES-B3		
D907	8-719-911-19	DIODE	1SS119		
D908	8-719-109-72	DIODE	RD3.9ES-B2		
D909	8-719-110-17	DIODE	RD10ESB2		
D910	8-719-911-19	DIODE	1SS119		
D911	8-719-911-19	DIODE	1SS119		
D912	8-719-911-19	DIODE	1SS119		
D913	8-719-911-19	DIODE	1SS119		
D914	8-719-911-19	DIODE	1SS119		
D915	8-719-911-19	DIODE	1SS119		
D916	8-719-911-19	DIODE	1SS119		
D917	8-719-911-19	DIODE	1SS119		
D918	8-719-911-19	DIODE	1SS119		
D919	8-719-911-19	DIODE	1SS119		
D921	8-719-970-76	DIODE	MPG4361F (POWER)		
		< IC >			
IC110	8-759-710-73	IC	NJM4580L		
IC130	8-759-634-50	IC	M5218AL		
IC210	8-759-710-73	IC	NJM4580L		
IC310	8-759-710-73	IC	NJM4580L		
IC330	8-759-634-50	IC	M5218AL		
IC410	8-759-710-73	IC	NJM4580L		
IC540	8-759-634-50	IC	M5218AL		
IC560	8-759-634-50	IC	M5218AL		
IC561	8-759-634-50	IC	M5218AL		
IC901	8-759-632-94	IC	M5223L		
		< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L910	1-421-976-11	COIL, CHOKE	220uH		
		< TRANSISTOR >			
Q130	8-729-927-14	TRANSISTOR	DTC323TS		
Q230	8-729-927-14	TRANSISTOR	DTC323TS		
Q330	8-729-927-14	TRANSISTOR	DTC323TS		
Q430	8-729-927-14	TRANSISTOR	DTC323TS		
Q540	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q561	8-729-927-14	TRANSISTOR	DTC323TS		
Q640	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q661	8-729-927-14	TRANSISTOR	DTC323TS		
Q901	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q902	8-729-900-61	TRANSISTOR	DTA114ES		
Q903	8-729-304-92	TRANSISTOR	2SB649A		
Q906	8-729-304-92	TRANSISTOR	2SB649A		
Q907	8-729-900-61	TRANSISTOR	DTA114ES		
Q908	8-729-119-77	TRANSISTOR	2SA1175-FEK		
Q909	8-729-119-77	TRANSISTOR	2SA1175-FEK		
Q910	8-729-900-61	TRANSISTOR	DTA114ES		
		< RESISTOR >			
R110	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R111	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R112	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R113	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R114	1-216-675-11	METAL CHIP	10K	0.5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R115	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R116	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R118	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R119	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R120	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R130	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R131	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R132	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R133	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R134	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R135	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R136	1-218-760-11	METAL GLAZE	220K	2%	1/10W
R137	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R210	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R211	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R212	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R213	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R214	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R215	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R216	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R220	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R230	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R231	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R232	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R233	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R234	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R235	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R236	1-218-760-11	METAL GLAZE	220K	2%	1/10W
R237	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R310	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R311	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R312	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R313	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R314	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R315	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R316	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R317	1-216-668-11	METAL CHIP	5.1K	0.5%	1/10W
R318	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R319	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R320	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R330	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R331	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R332	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R333	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R334	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R335	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R336	1-218-760-11	METAL GLAZE	220K	2%	1/10W
R337	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R410	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R411	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R412	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R413	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R414	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R415	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R416	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R417	1-216-668-11	METAL CHIP	5.1K	0.5%	1/10W
R418	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R419	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R420	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R430	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R431	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R432	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R433	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R434	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R435	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R436	1-218-760-11	METAL GLAZE	220K	2%	1/10W
R437	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R540	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R541	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R542	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R543	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R560	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R561	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R562	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R563	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R564	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R565	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R566	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R567	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R568	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R569	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R570	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R571	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R572	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R573	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R574	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R575	1-216-680-11	METAL CHIP	16K	0.5%	1/10W
R576	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R577	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R640	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R641	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R642	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R643	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R660	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R661	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R662	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R663	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R664	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R665	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R666	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R667	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R668	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R669	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R670	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R671	1-216-674-11	METAL CHIP	9.1K	0.5%	1/10W
R672	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R673	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R674	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R675	1-216-680-11	METAL CHIP	16K	0.5%	1/10W
R676	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R677	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R901	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R902	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R903	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R906	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R909	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R911	1-208-425-51	METAL GLAZE	330	2%	1/10W
R912	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R913	1-218-756-11	METAL GLAZE	150K	2%	1/10W
R914	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R915	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R916	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R917	1-216-643-11	METAL CHIP	470	0.5%	1/10W
R918	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R919	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R920	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R921	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R924	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R925	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R926	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R927	1-216-675-11	METAL CHIP	10K	0.5%	1/10W

< VARIABLE RESISTOR >

RV130	1-241-251-11	RES, VAR, CARBON 5K (REAR LEVEL)
RV330	1-241-251-11	RES, VAR, CARBON 5K (FRONT LEVEL)
RV540	1-241-250-11	RES, VAR, CARBON 10K (LOW BOOST)
RV560	1-241-251-11	RES, VAR, CARBON 5K (SUB WOOFER)

< SWITCH >

SW130	1-572-492-21	SWITCH, ROTARY (HI-PASS)
SW310	1-692-948-11	SWITCH, SLIDE (SUB WOOFER)
SW560	1-572-491-11	SWITCH, ROTARY (LOW-PASS)

****

Ref. No.	Part No.	Description	Remark

ACCESSORIES & PACKING MATERIALS

****

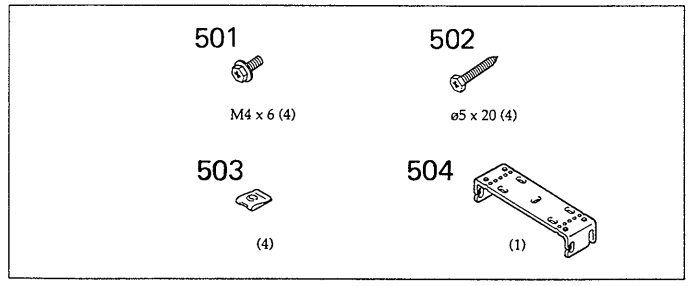
	1-532-419-11	FUSE 3.15A 125V
	1-696-710-11	CORD (WITH CONNECTOR)
	3-758-463-11	MANUAL, INSTRUCTION (ENGLISH, SAPNISH, GERMAN, CHINESE) (AEP, UK, German, E)
	3-758-463-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, Canadian)
	3-758-463-41	MANUAL, INSTRUCTION (FRENCH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE) (AEP, UK)
*	3-913-243-01	INDIVIDUAL CARTON
*	3-913-245-01	CUSHION, CORRUGATED FIBERBOARD

****

MOUNTING HARDWARE

****

501	3-315-744-01	SCREW (M4X6), HEXAGON
502	3-302-126-01	SCREW, TAPPING (DIA, 5X20)
503	3-302-125-00	NUT (DIA, 5) (P=0.8), SPEED
504	3-315-736-21	BRACKET, NEW D



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